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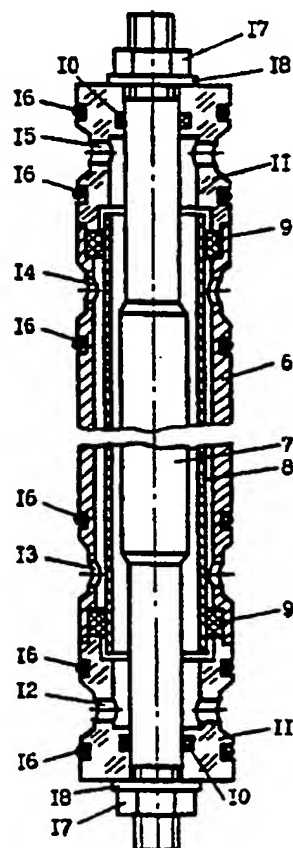
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(71) (72) and (74) continued overleaf

(54) Apparatus for electrochemical treatment of water

(57) The device for electrochemical processing of water may be used for purification and disinfection of potable water, as well as for obtaining washing and disinfecting solutions, and comprises at least one electrochemical cell consisting of vertical coaxial electrodes of cylindrical and rod-type variable cross-section which are mounted in dielectrical bushings, an ultrafiltering diaphragm made of ceramic based on zirconium oxide and coaxially mounted in bushings between the electrodes, the geometrical dimensions of the cell satisfying to certain relationships. A system of openings in the electrodes and of channels in the bushings provides for optimal hydraulic characteristics of the cell. The bushings and the cylindrical electrode have the same external diameter, and the cells are in a certain way secured by means of washers in an upper and a lower collector of a dielectric material with cylindrical seats in each and with inlet and outlet channels. The collectors comprise several seats or consist of a unit of blocks having each one seat, and are provided with means for sealing and bracing the structure, and the cells mounted in the seats are interconnected in parallel hydraulically and in parallel or in series electrically. The device may further comprise consumption regulators, a mechanism for dosing the reagent mounted on the water supply main, receptacles with a catalyst and a hydraulic binding. The device allows to reduce the energy consumption, to simplify the construction, to decrease the workload on assembling and disassembling the device, as well as to widen the functional possibilities by means of simplification and unification of the hydraulic circuit of the device.



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